

F.Y.B.Arch. Field Work Report

2022-23

Sawantwadi, Maharashtra



BOMBAY SUBURBAN ART AND CRAFT SOCIETY'S
L.S. RAHEJA SCHOOL OF ARCHITECTURE

CERTIFICATE

This is to certify that the students of F.Y.BArch mentioned in the list attached have successfully completed the field work on the documentation of Kudaleshwar Temple, Sindhudurg, under the guidance of Prof. Sachin Prabhu and the faculty members mentioned in the attached list.

The field work has been conducted from 20th February 2023 to 26th February 2023. And is undertaken as a part of the academic study based on the curriculum designed by L.S.Raheja School of Architecture under the framework of the curriculum mentioned by the University of Mumbai.

Prof. Sachin Prabhu
Field Work In-charge

Prof. Mandar Parab
Principal

STUDENT LIST	
SR NO.	NAME OF STUDENT
1	AGRAWAL DHARUV
2	BABULKAR NIKUNJ
3	BHOJWANI PIYUSH
4	CHANDELE PRACHI
5	CHAVAN SWARAJ
6	DAHLE SHRUTI
7	DAKOLIYA PURUSHARTH
8	DEB OJOSWITA
9	DESAI SARA
10	GAUD VIKAS
11	GUPTA ANANYA
12	JADHAV BHAVESH
13	JADHAV KHYAATI
14	JAIN DEVANI
15	JAIN GUNANT
16	JANGID MUKESH
17	KHEDEKAR SANKALP
18	KHATAL SAYALI
19	KONDUSKAR ANUSHKA
20	KUMAR JAYANI
21	MADNAIK RUTURAJ
22	MAHAKAL ANUSHKA
23	MAKWANA SHUBH
24	MEHRA CHARU
25	MIHANI MAHEK
26	MUN LAVANYA
27	NAIK ARYA
28	PARAB SWARANGI
29	PATEL TIRTH
30	PATIL MANASI
31	PATIL SEJAL
32	PHADKE ADVAY
33	POTE RIDDHI
34	RAJGURU TEJAS
35	RATHOD VEDANT
36	SANKLECHA RASHI
37	SAYYED GUFRAAN
38	SINGHAL APURVA
39	TAMBADE PRATHMESH
40	TARI MILONEE
41	TILWANI TANVI
42	VARMA DAKSHITA
43	WADGAONKAR AARYA

STUDENT LIST	
SR NO.	NAME OF STUDENT
44	AROLKAR SIDDHI
45	BHOIR CHINMAYEE
46	BHOPI ANUSHKA
47	CHAVAN AADITYA
48	CHURI JANHAVI
49	DAHIHANDE ROHIT
50	DAULATKAR MADHURA
51	DESAI BHUMIJA
52	DESHMUKH VISHWJEET
53	GHUGE SAMIKSHA
54	HARYANI JINIT
55	JADHAV PRONIT
56	JAIN DEVANSHI
57	JAIN YUKTI
58	KARGUTKAR RIYESH
59	KHAN ABDUS SAMI
60	KOCHLE SWARA
61	KONGRE SHRUTI
62	MACHADO OLIVIA
63	MAHAJAN ARJUN
64	MAKWANA DHARUV
65	MANWATKAR SHARDUL
66	MHATRE NIVESH
67	MISHRA MIHIKA
68	MUSALE MANSI
69	NAIK SHRAVANI
70	PANDEY ANJALI
71	PARULEKAR HARSHADA
72	PATIL GAURI
73	PATIL SACHIN
74	PAWAR SNEHA
75	PINTO CLIFFORD
76	PUTHRAN MAHIMA
77	RANGNEKAR DINESH
78	RAUL AATISH
79	SATRA MALLI
80	SHARMA PRAGYA
81	SINGHAL HIMIKA
82	TAMBE TANVI
83	TIBOLE SHRINIVAS
84	UKARDE SNEHA
85	VIJAY ISHITA

FACULTY LIST			
SR. NO.	FACULTY NAME	SR. NO.	FACULTY NAME
1	Ar. Arvind Khanolkar	4	Ar. Neeta Sarode
2	Ar. Sachin Prabhu	5	Ar. Shraddha Palande
3	Ar. Milind Amle	6	Ar. Deepa Desai

ACKNOWLEDGEMENT

On behalf of all the Tour members, we extend our sincere thanks to Ar. Mandar Parab, Principal, L.S.Raheja School of Architecture, Ar. Arvind Khanolkar, Design Chair, L.S.Raheja School of Architecture of F.Y.Barch 2022-2023. Our heartfelt gratitude to Ar. Shraddha Palaande, Class In-charge of F.Y.Barch for her continues support and valuable assistance throughout the trip. Special thanks to Ar. Arvind Khanolkar, Ar. Sachin Prabhu, Ar. Milind Amble, Ar. Neeta Sarode, Ar. Shraddha Palande and Ar. Deepa Desai, Senior Faculty at L.S.Raheja School of Architecture for sharing their architectural and technical knowledge during this tour. Our gratitude to the residents of Sawantwadi, for their selfless and relentless services.

-Students

F.Y.Barch

Batch of 2022-2023

PREFACE

An Educational tour for the first year B.Arch students was organised by L.S.Raheja School of Architecture to Sawantwadi, Maharashtra from – to --. Study tours are vital in imparting practical knowledge in students along with their academic studies. The aim of this tour was to aid the students acquire basic knowledge of documentation, technical drawings, regional analysis, vernacular architecture as a response to cultural and climatic influence of a region.

L.S.Raheja School of Architecture has been organizing this educational tour to Sawantwadi since 2007. Over the 16 years, students of F.Y.Barch of the institution have comprehensively documented temple complexes with immense help and support from the locals.

This year, a temple of God Kudaleshwar, at Kudal, was chosen for detailed documentation by students of F.Y.Barch under the guidance of Ar. Arvind Khanolkar, Design Chair of L.S.Raheja School of Architecture, who has been instrumental in planning documentation study tours for the institution. This year he was accompanied by, Ar. Sachin Prabhu, Ar. Milind Amble, Ar. Neeta Sarode, Ar. Shraddha Palande and Ar. Deepa Desai. Besides documentation and technical drawings of temples architecture, the tour also encouraged visits to significant structures in the region such as --.

The tour concluded with a visit to Bamboo workshop, where the students learned and firsthand witnessed processing of bamboo plant from start to finish.

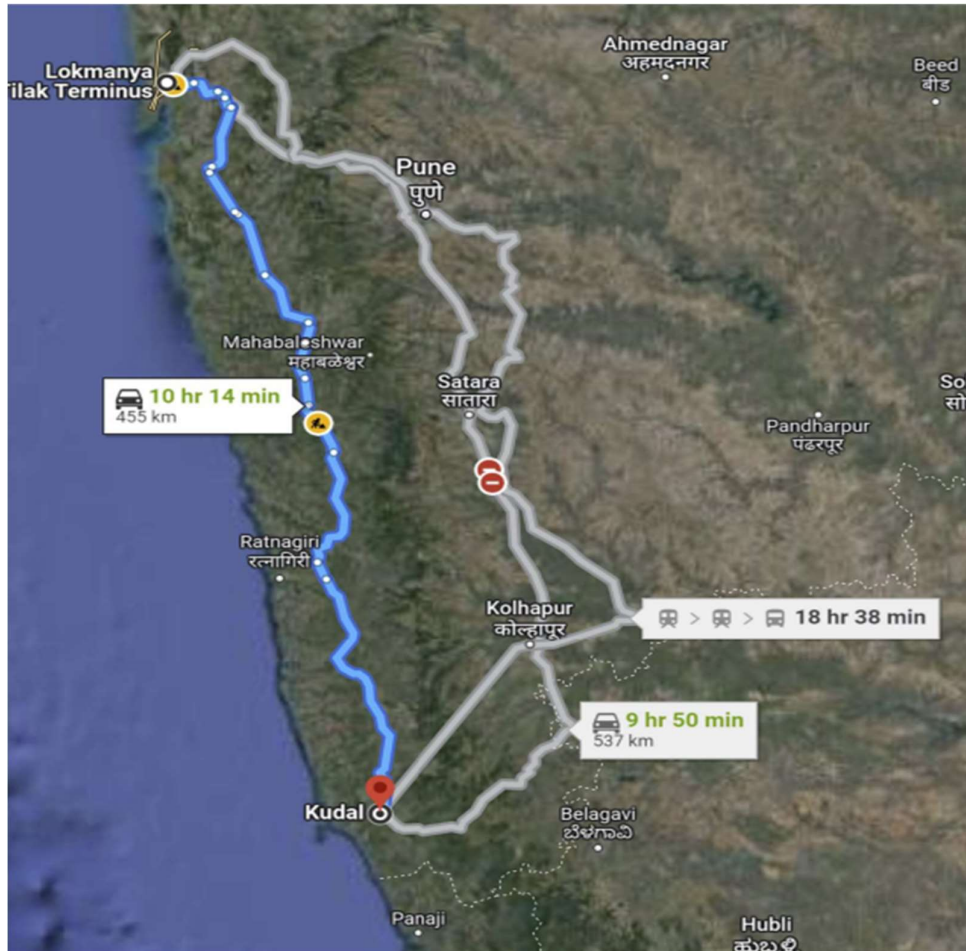
The one week intense educational program was indeed successful through immense efforts of the students and faculty throughout the tour. With the aim of creating a fun and experimental learning environment, L.S.Raheja School of Architecture intends to continue to organize and implement such educational tours within the academic curriculum.

CONTENTS

1. Journey to Sawantwadi	05
2. Temple Documentation	07
3. Structures Beyond the Temple	12
4. Bamboo Workshop	14
5. Insights	16
6. Credits	17

1. JOURNEY TO SAWANTWADI

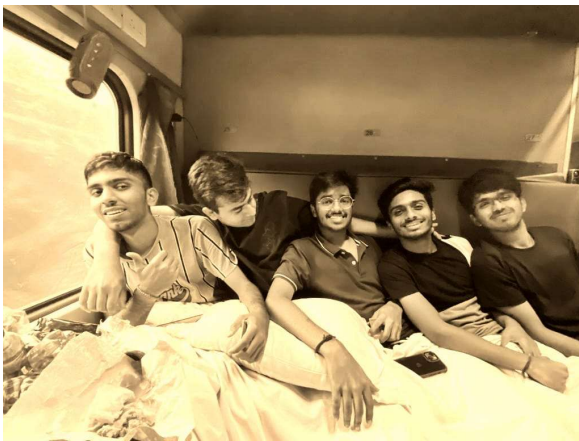
The expedition commenced on 19th February, 2022, starting from Lokmanya Tilak Terminus (LTT) Station in Kurla, Mumbai. The destination was Kudal Railway Station in Sindhudurg, encompassing a journey of 480 kilometres completed in a span of 8 hours. The students were required to gather at 11:00 p.m. to board the Madgaon Express train, scheduled for departure at 11:40 AM.



Upon reaching Kudal railway station at 7:53 PM, the students were smoothly transitioned to Hotel Mango in Sawantwadi. The lengthy 8-hour train voyage provided an exceptional opportunity for both students and faculty to engage, forming bonds and interactions. Despite the scorching summer day, the hours were filled with a medley of group games such as charades and Uno, food sharing that spanned homes, ice-breaking sessions among various groups, consistent purchases of refreshing cold beverages and snacks from assorted vendors. All of this culminated in their mental preparation for their inaugural architecture study expedition.

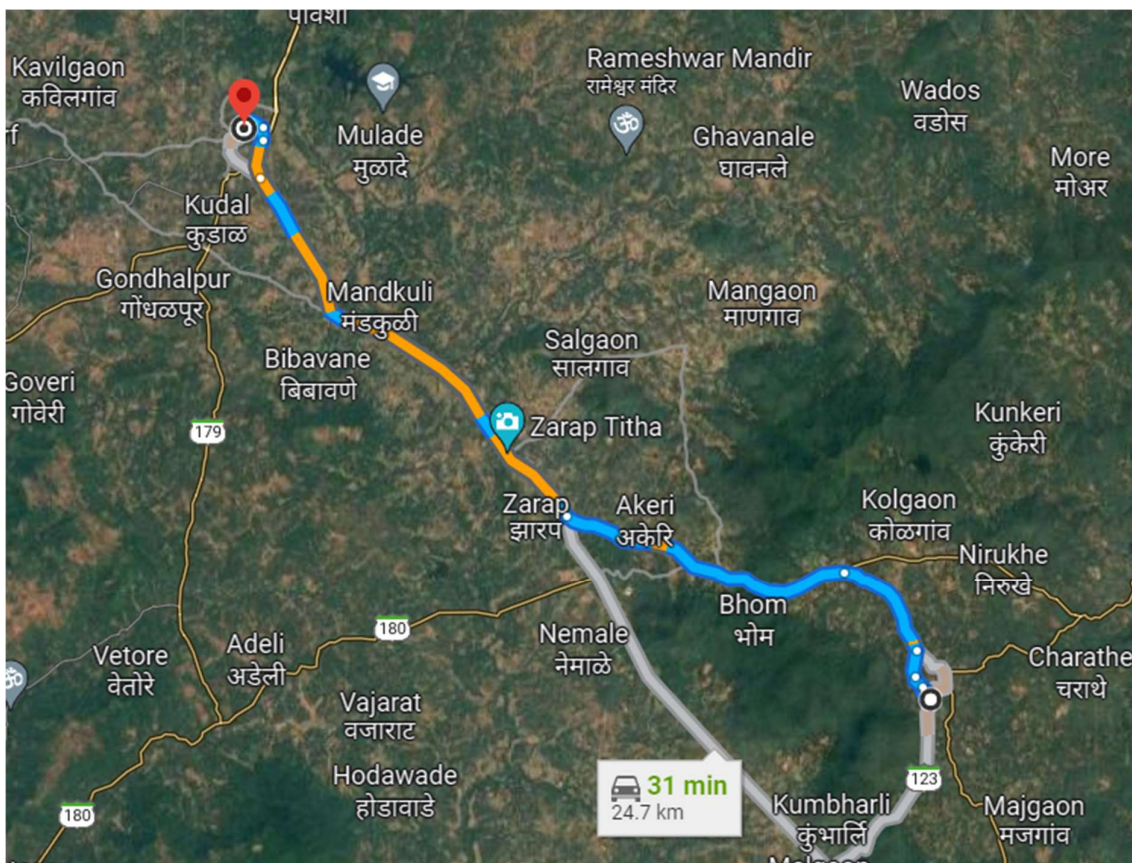
The passage from Mumbai to Konkan was graced with the presence of natural splendor—tranquil flowing water bodies, scenic landscapes, and a refreshing natural breeze. This journey acted as a reprieve from the concrete urban environment, a true immersion into a biophilic setting.

The evening on the train was a delightful interlude, revitalizing the students as they relished the final hours of their railway experience. Disembarking at Kudal around 10 PM, they subsequently transferred to the hotel in a fleet of six minibuses.



2. TEMPLE DOCUMENTATION

The main intent of this study tour was for the students to learn Architectural Documentation using various techniques and drafting Plans, Section, Elevations, Details of the same. The temple, located in Kudal, was selected for this year's documentation. The temple was located around 24.7 km away from Sawantwadi Taluka.



A. KUDALESHWAR TEMPLE:

The core purpose of this educational excursion was to enrich students' understanding of Architectural Documentation by immersing them in a range of techniques encompassing drafting Plans, Sections, Elevations, and intricate Details. The chosen focus of this year's documentation initiative was the Kudaleshwar Temples, located near Sawantwadi. These temples offered an ideal platform for hands-on learning.

Nestled in the Sindhudurg district of Maharashtra, India, the Kudaleshwar Temple is situated in the town of Kudal. This town, nestled in the Konkan region, is renowned for its coastal vistas, verdant landscapes, and rich cultural heritage. The well-connected road and rail networks render Kudal easily accessible to both devotees and visitors alike. The temple itself holds a pivotal position within the local community and bears profound religious significance. As is customary with numerous Indian temples, the Kudaleshwar Temple is likely to echo architectural and artistic motifs emblematic of the region and the era of its construction.

Students were systematically organized into distinct teams, each tasked with documenting different facets of the temple complex. This division was based on their specific skills:

Analysis Team: This group delved deeply into comprehensive research not only concerning the temple but also the significant areas surrounding it. Their meticulous examination spanned from macro-level insights to intricate micro-level details, thoroughly unravelling the structure's essence.

Site Section and Plan Team: Employing on-site architectural methodologies, this team skilfully measured the various sections of the temple's location. Their precise measurements culminated in a meticulously scaled site plan.

Temple Plan and Sections Team: Similar to their peers, this group meticulously measured distinct parts of the temple, including the sanctum (garbhagriha) and the assembly hall (sabhamandap). The separation into specialized teams for each segment ensured comprehensive and accurate data for the documentation process.

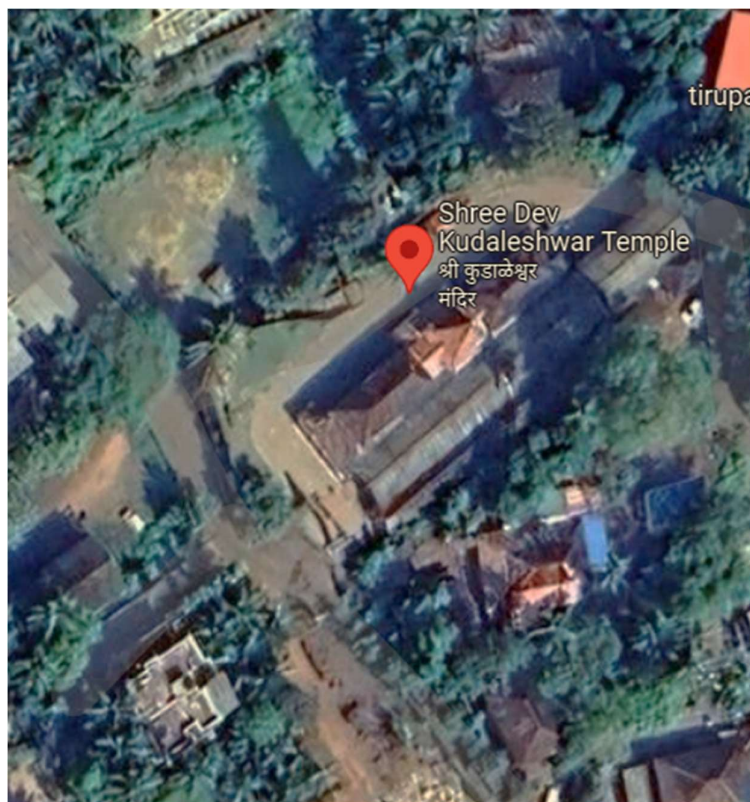
Elevations Team: This team concentrated on documenting the diverse elevations of the temple, capturing its architectural magnificence from all angles.

Detailing Team: Focusing on the intricate intricacies adorning the temple's walls, doors, columns and windows, this team meticulously documented these details, highlighting the craftsmanship.

Ancillary Documentation: In addition, students diligently recorded the main entrance, the pavilion, and the smaller temple precincts within the site.

Roofing Details and Drawings Team: Recognizing the often-neglected yet crucial aspect of roofing, a specialized team was entrusted with comprehensively documenting the intricate roofing structures, materials, and design specifics.

This strategic division of students into specialized teams resulted in an exhaustive and precise dataset for temple documentation. The students relished this collaborative endeavour, working in teams that not only provided an enriching educational experience but also fostered teamwork and coordination skills.







3. STRUCTURES BEYOND TEMPLE

Housing settlements in Kudal:

The members of the team specializing in analysis were dispatched to investigate the vicinity of the temple's location. During their exploration, they had the opportunity to visit the residence of the Vaidya family, who had been inhabiting the area for several generations. This residential compound consisted of three edifices arranged in a U shape around a central courtyard. The students diligently recorded their observations of this architectural arrangement, as it stood out as one of the most expansive residential properties in the area. In addition, the students also meticulously documented a cluster of smaller dwellings, aiming to gain insights into the disparities in lifestyle and housing among various segments of society.



Paan Bazaar:

The students from team Analysis explored the vibrant area around the temple.

The hustling and bustling streets of paan bazar house the main market close to the temple that got its name due to the distinctly large beetle nut leaf or paan native to the region.

The unorganised commercial fabric of the thoroughfare is apparent as vendors line the streets to sell their traditional regional goods that have been carried forth for generations with Wednesdays being the most active day.

The 3m wide road of the lane is shaded by the ground plus 1 or 2 storied buildings on one side which house mercantile practices at the lower level.

The paan bazaar is also a multicultural confluence with various communities living together and temples, mosques and churches dotting the streets.

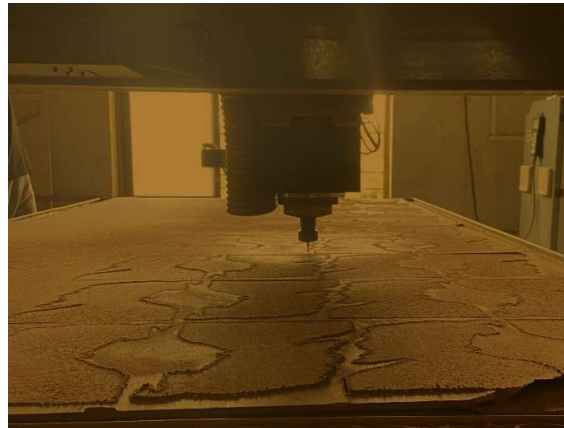


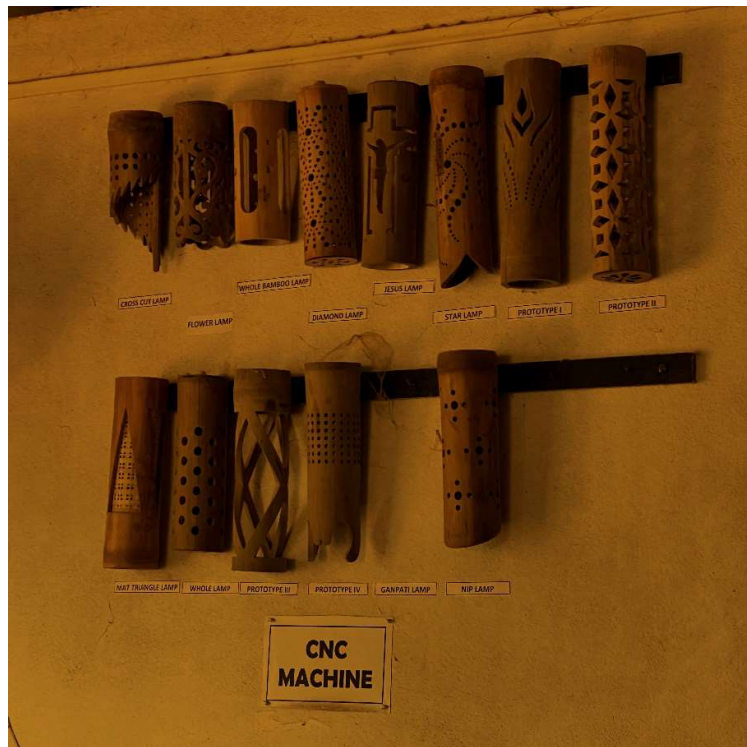
While exploring the area, the students came across a very unique building in the modern context- The Bhatt building. Bhatt building is a perfect example of how the residential buildings are modified into commercial establishment- something prevalent in almost all the structures in the area- all while retaining the historical character of the structure. This building was once a palatial residence was first converted into a dairy in the 1900s and now functions as a commercial warehouse.



4. BAMBOO WORKSHOP

The last day of the trip was an insight into the bamboo industry. The students gained first hand experience into the process of how bamboo is made ready for use in construction and also how it is applied not only to make accessories and furniture but also complete structures at the Konbac Bamboo Factory and the Cluster of Handicraft in Bamboo and Value Addition Research. With Bamboo and its vast application in sustainable architecture, the visit was an important one for the young future architects.





5. INSIGHT

Objectives:

- To learn documentation and Technical drawings by documenting temple in Sawantwadi.
- To create sensitivity towards Konkan and regional Architecture through micro and macro level analysis.
- To visit various structures to understand design, structural members, roof details, architectural elements and details, material used for the strtures, climate responsive architecture and vernacular architecture of the region.
- To understand how contemporary architecture can be also influenced by traditional architecture, local materials and culture.

Learnings:

Students exhibited a heightened interest in architecture upon experiencing a variety of structures and architectural marvels in the Konkan region. The educational tour yielded several valuable insights, including:

- Further enrichment of the Rural Narrative Exercise previously introduced in college.
- Comprehensive comprehension of village pathways, traditional residences, and temple architecture.
- Enhanced awareness of environmental factors and local considerations.
- Introduction to the principles of sustainable architecture.
- Profound understanding of intricate architectural blueprints.
- Acquisition of surveying and documentation techniques.
- Development of effective teamwork and time management skills.
- Improvement in presentation abilities.
- Proficient data collection and thorough analysis capabilities.

L.S.Raheja School of Architecture

Raheja Education complex, Khernagar, Bandra (E), Mumbai - 51

Class Incharges - Anuj Gudekar, Meghana Patil, Shraddha Palande

**FIRST YEAR B.ARCH 2022-23 STUDY TOUR - DOCUMENTATION OF
KUDALESHWAR TEMPLE, KUDAL**

Date - 21st February to 26th February 2023

Group No.	Group Name	Students
MACRO LEVEL		
A1	Analysis	Shriniwas Jayani Devanshi Gunant
M1	Macro level mapping / Context mapping	Jinit Arjun
TEMPLE COMPLEX		
MD1	Main gate & Deep stambh	Tanvi Tambe Bhavesh Jadhav Sejal Charu Aatish
SITE PLAN 1	Site plan - Group 1	Piyush Madhura Mansi Patil Riddhi Pote Sankalp
SITE PLAN 2	Site plan - Group 2	Raturaj Nikunj Prachi Purusharth Aarya W Mihika
SITE SECTION	Site Section	Swaraj Vikas Sayali Khatal Khyaati

PLANS		
P1	Main temple plan - Garbhagriha	Olivia Dinesh Rashi Advay

<p>L.S.Raheja School of Architecture Raheja Education complex, Khernagar, Bandra (E), Mumbai - 51</p> <p>Class Incharges - Anuj Gudekar, Meghana Patil, Shraddha Palande</p>		
<p>FIRST YEAR B.ARCH 2022-23 STUDY TOUR - DOCUMENTATION OF KUDALESHWAR TEMPLE, KUDAL</p>		
<p>Date - 21st Februray to 26th February 2023</p>		
Group No.	Group Name	Students
P2	Main temple plan - middle section	Sara Sneha Pawar Pronit
P3	Main temple plan - Sabhamandapa	Yukti Arya Naik Dhruv Agrawal

L.S.Raheja School of Architecture

Raheja Education complex, Khernagar, Bandra (E), Mumbai - 51

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FIRST YEAR B.ARCH 2022-23 STUDY TOUR - DOCUMENTATION OF KUDALESHWAR TEMPLE, KUDAL

Date - 21st February to 26th February 2023

Group No.	Group Name	Students
SECTIONS		
LS 1	Longitudinal section - Garbhagriha	Vedant Bhumija Mahek Shubh
LS 2	Longitudinal section - Middle section	Swarangi Sneha Ukarde Mukesh
LS 3	Longitudinal section - Sabhamandapa	Milonee Guari Sami
CS 1	Cross section - Garbhagriha	Siddhi Arolkar Shravani Naik Sachin Patil
CS 2	Cross section - Middle section	Himika Janhvi Churi Rohit
CS 3	Cross section - Sabhamandapa	Apurva Singhal Anushka Bhopi Clifford

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Raheja Education complex, Khernagar, Bandra (E), Mumbai - 51

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**FIRST YEAR B.ARCH 2022-23 STUDY TOUR - DOCUMENTATION OF
KUDALESHWAR TEMPLE, KUDAL**

Date - 21st February to 26th February 2023

Group No.	Group Name	Students
ELEVATIONS		
ELEV 1	Long elevation - Side elevation	Shruti Kongre Samiksha G Pragya Gufran
ELEV 2	Short elevation - Front side	Ojoswita Dhruv M Anjali Pandey Malli
ELEV 3	Short elevation - Rear side	Swara Shardul Nivesh Mahima
DETAILS		
D1	Roof Construction Joinery	Aaditya Chavan Prathamesh
D2	Door	Chinmayee Bhoir Harshada Parulekar
D3	Carving - 1	Ishita Vijay Anushka Konduskar
D4	Carving - 2	Tanvi Tilwani Shruti Dahale

L.S.Raheja School of Architecture

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**FIRST YEAR B.ARCH 2022-23 STUDY TOUR - DOCUMENTATION OF
KUDALESHWAR TEMPLE, KUDAL**

Date - 21st Februray to 26th February 2023		
Group No.	Group Name	Students
SKETCHING		
S1	Views & Details	Riyesh Vishwajeet Tirth Manasi Musale
SHED - PLAN & SECTIONS		
SHED 1	Plan	Anushka Mahakal Lavanya Dakshita
SHED 2	Sections	Devani Jain Tejas Rajguru Ananya

L. S. RAHEJA SCHOOL OF ARCHITECTURE
LIBRARY

DATE : 24/02/2023

PAGE NO. 06



शब्दांना सत्याची धार
प्रहार

प्राचीन वास्तुकलेच्या अभ्यासासाठी रहेजा कॉलेजचे विद्यार्थी कुडाळात दाखल

कुडाळ (प्रतिनिधी)

कोकणातील व विशेष करून सिंधुदुर्गातील प्राचीन मंदीरापैकी एक कुडाळ येथील श्री देव कुडाळेश्वर मंदिराच्या वास्तुकलेचा व वास्तुरचनेचा अभ्यास मुंबई येथील एल. एस. रहेजा कॉलेज ऑफ आर्किटेक्ट ८६ विद्यार्थी त्यांच्या शिक्षकांच्या मार्गदर्शनाखाली करीत आहेत. येथील प्राचीन मंदीराची, प्राचीन वास्तुशास्त्राची व सांस्कृतिक वारश्याची राष्ट्रीय स्तरावर नोंदणी व्हावी, या सर्वांचा अभ्यास करता यावा, पुढच्या पिढीला याची माहिती मिळावी हाच या अभ्यास दौऱ्याचा उद्देश असल्याची माहिती महाविद्यालयाचे माजी प्राचार्य व प्राध्यापक अरविंद खानोलकर यांनी दिली.

कोकणात प्राचीन मंदीरे मोठ्या प्रमाणात आहेत. या मंदिराचा अभ्यास करण्यासाठी २००८ पासून एल. एस. रहेजा कॉलेज ऑफ आर्किटेक्ट

श्री देव कुडाळेश्वर मंदीराच्या प्राचीन वास्तुकलेचा अभ्यास



महाविद्यालया मार्फत प्रथमवर्षाच्या विद्यार्थ्यांना सिंधुदुर्गात आणत आहेत. यापूर्वी जिल्ह्यातील वेगुला, खानोली, आकरी, नेमळे, वालावल, नेरूर, मुणगे येथील मंदिराच्या ठिकाणी अभ्यास दौरे आयोजित करण्यात आला होता. या वर्षी श्री देव कुडाळेश्वर मंदीर येथे हा अभ्यास

दौरा २१ फेब्रुवारीपासून आयोजित केला आहे. महाविद्यालयाचे माजी प्राचार्य अरविंद खानोलकर, प्राध्यापक सचिन प्रभु, प्रा. मिलिंद दामले, प्रा. निता सरोदे, प्रा. दिपा देसाई, प्रा. श्रद्धा पालांडे यांच्या मार्गदर्शनाखाली प्रथम वर्षांचे ८६ विद्यार्थी, विद्यार्थिनी अभ्यास करीत

आहेत.

या अभ्यास दौऱ्याच्या उद्देशाबाबत माहिती देताना बाबत खानोलकर यांनी सांगितले की, कोकणात खूप प्राचीन मंदीरे आहेत, त्यांची बांधकाम शैली ही ग्रामीण वास्तुशैली आहे. व या सांस्कृतिक वारशाचा, बांधकाम शास्त्राचा राष्ट्रीय स्तरावर अभ्यास करता यावा त्याची नोंदणी व्हावी, पर्यटनाला चालना मिळावी, पुढच्या पिढीला त्याचा अभ्यास करण्यास मिळावा, नविन बांधकाम शास्त्रात त्याचा वापर करता यावा हा उद्देश आहे. तसेच विद्यार्थ्यांना वर्गातील शिक्षणाबरोबरच अशा प्रकारच्या प्रात्यक्षिक शिक्षणातून जास्त ज्ञान मिळते अशी माहिती दिली.

येथील श्री देव कुडाळेश्वर मंदीराच्या प्राचीन वास्तु शैलीचा जतन केलेले आहे. त्यामुळे या मंदीराची अभ्यास दौऱ्यासाठी निवड करण्यात आली असे खानोलकर यांनी सांगत श्री देव कुडाळेश्वर मंत्र मंडळ तसेच काही ग्रामस्थ यांनी खूप चांगले सहकार्य केले असे सांगितले.

Sindhudurg Edition
Feb, 24 2023 Page No, 6